

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date:04/29/2009

Study Summary

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Battelle Columbus Laboratory	058810503	04/22/02	729	50 (3)	35(702)	521.9	Isoeugenol
Battelle Columbus Laboratory	052000705	08/18/04	727	49 (3)	34(692)	515.2	Kava kava extract
Battelle Columbus Laboratory	059902303	03/25/02	729	50 (3)	29(683)	501.9	beta-Myrcene
Battelle Columbus Laboratory	059902005	04/09/03	727	50 (3)	39(685)	514.9	Pulegone
Female							
Battelle Columbus Laboratory	058810503	04/23/02	730	50 (5)	33(699)	339.3	Isoeugenol
Battelle Columbus Laboratory	052000705	08/19/04	728	50 (5)	34(683)	354.3	Kava kava extract
Battelle Columbus Laboratory	059902303	03/26/02	730	50 (5)	31(668)	323.8	beta-Myrcene
Battelle Columbus Laboratory	059902005	04/10/03	728	50 (5)	31(682)	341.2	Pulegone

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

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Male					Female				
#All Organs:									
Benign Tumors									
		49/50 (98%)	49/49 (100%)	49/50 (98%)		41/50 (82%)	43/50 (86%)	40/50 (80%)	
		47/50 (94%)				42/50 (84%)			
Overall Incidence	Total	194/199 (97.49%)	Mean 97.5%	SD 2.52%	Total	166/200 (83%)	Mean 83%	SD 2.58%	
#All Organs:									
Malignant Tumors									
		29/50 (58%)	17/49 (35%)	23/50 (46%)		18/50 (36%)	11/50 (22%)	11/50 (22%)	
		10/50 (20%)				8/50 (16%)			
Overall Incidence	Total	79/199 (39.7%)	Mean 39.67%	SD 16.2%	Total	48/200 (24%)	Mean 24%	SD 8.49%	
#All Organs:									
Malignant and Benign Tumors									
		50/50 (100%)	49/49 (100%)	50/50 (100%)		46/50 (92%)	46/50 (92%)	45/50 (90%)	
		47/50 (94%)				44/50 (88%)			
Overall Incidence	Total	196/199 (98.49%)	Mean 98.5%	SD 3%	Total	181/200 (90.5%)	Mean 90.5%	SD 1.91%	
#All Organs:									
Hemangioma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/199 (0%)	Mean 0%	SD 0%	Total	1/200 (0.5%)	Mean 0.5%	SD 1%	
#All Organs:									
Hemangiosarcoma									
		1/50 (2%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)				2/50 (4%)			
Overall Incidence	Total	1/199 (0.5%)	Mean 0.5%	SD 1%	Total	2/200 (1%)	Mean 1%	SD 2%	

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

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Male										Female					
#All Organs: Hemangiosarcoma or Hemangioma															
		1/50	(2%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/50	(0%)							2/50	(4%)				
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total		3/200	(1.5%)	Mean	1.5%	SD	1.91%
.....															
#All Organs: Histiocytic Sarcoma															
		0/50	(0%)	0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total		0/200	(0%)	Mean	0%	SD	0%
.....															
#All Organs: Leukemia: Erythrocytic															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total		0/200	(0%)	Mean	0%	SD	0%
.....															
#All Organs: Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated															
		10/50	(20%)	7/49	(14%)	9/50	(18%)			8/50	(16%)	5/50	(10%)	5/50	(10%)
		4/50	(8%)							4/50	(8%)				
Overall Incidence	Total	30/199	(15.08%)	Mean	15.07%	SD	5.28%	Total		22/200	(11%)	Mean	11%	SD	3.46%
.....															
#All Organs: Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type															
		0/50	(0%)	1/49	(2%)	1/50	(2%)			0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	2/199	(1.01%)	Mean	1.01%	SD	1.17%	Total		1/200	(0.5%)	Mean	0.5%	SD	1%

*: Denominator is number of animals with tissues examined microscopically
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Toxicology Data Management System
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Male												Female			
#All Organs:															
Osteosarcoma or Osteoma															
		2/50	(4%)	1/49	(2%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	4/199	(2.01%)	Mean	2.01%	SD	1.63%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
*Adrenal Cortex:															
Adenoma															
		0/50	(0%)	0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		2/50	(4%)							0/50	(0%)				
Overall Incidence	Total	3/199	(1.51%)	Mean	1.5%	SD	1.91%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
*Adrenal Cortex:															
Carcinoma															
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	1/199	(0.5%)	Mean	0.51%	SD	1.02%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
*Adrenal Medulla:															
Ganglioneuroma															
		0/50	(0%)	0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
*Adrenal Medulla:															
Hemangioma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%	

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 #: Denominator is number of animals necropsied

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		Male				Female			
*Adrenal Medulla:									
Pheochromocytoma Benign									
		5/50 (10%)	5/49 (10%)	11/50 (22%)		2/50 (4%)	3/50 (6%)	1/50 (2%)	
		8/50 (16%)				3/50 (6%)			
Overall Incidence	Total	29/199 (14.57%)	Mean 14.55%	SD 5.69%	Total	9/200 (4.5%)	Mean 4.5%	SD 1.91%	
.....									
*Adrenal Medulla:									
Pheochromocytoma Complex									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/199 (0%)	Mean 0%	SD 0%	Total	0/200 (0%)	Mean 0%	SD 0%	
.....									
*Adrenal Medulla:									
Pheochromocytoma Malignant									
		3/50 (6%)	0/49 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	5/199 (2.51%)	Mean 2.5%	SD 3%	Total	0/200 (0%)	Mean 0%	SD 0%	
.....									
*Adrenal Medulla:									
Pheochromocytoma: Benign, Complex, Malignant, NOS									
		7/50 (14%)	5/49 (10%)	13/50 (26%)		2/50 (4%)	3/50 (6%)	1/50 (2%)	
		8/50 (16%)				3/50 (6%)			
Overall Incidence	Total	33/199 (16.58%)	Mean 16.55%	SD 6.74%	Total	9/200 (4.5%)	Mean 4.5%	SD 1.91%	
.....									
#Bone:									
Chondrosarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/199 (0%)	Mean 0%	SD 0%	Total	0/200 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

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Male										Female					
#Bone: Chondrosarcoma or Chondroma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Bone: Chordoma															
		0/50	(0%)	0/49	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Bone: Osteoma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Bone: Osteosarcoma															
		2/50	(4%)	1/49	(2%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	4/199	(2.01%)	Mean	2.01%	SD	1.63%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Bone: Osteosarcoma or Osteoma															
		2/50	(4%)	1/49	(2%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	4/199	(2.01%)	Mean	2.01%	SD	1.63%	Total	0/200	(0%)	Mean	0%	SD	0%	

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#: Denominator is number of animals necropsied

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Length of Study: CHRONIC

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Male														Female					
*Brain: Medulloblastoma Mal																			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%					
.....																			
*Brain: Meningioma Malignant																			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%					
.....																			
*Brain: Meningioma: Benign, Malignant, NOS																			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%					
.....																			
*Brain: Oligodendroglioma Benign																			
		0/50	(0%)	0/49	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%	SD	0%					
.....																			
*Brain: Oligodendroglioma Malignant																			
		1/50	(2%)	0/49	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%					

#: Denominator is number of animals necropsied

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Male												Female					
*Brain: Oligodendroglioma, Glioma, or Astrocytoma																	
		1/50	(2%)	0/49	(0%)	1/50	(2%)			1/50	(2%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)							0/50	(0%)						
Overall Incidence	Total	3/199	(1.51%)	Mean	1.5%	SD	1%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%			
.....																	
*Brain: Osteosarcoma																	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)							0/50	(0%)						
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
*Brain: Schwannoma Malignant																	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)							0/50	(0%)						
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
*Clitoral/Preputial Gland: Adenoma																	
		2/50	(4%)	0/49	(0%)	5/50	(10%)			3/48	(6%)	2/50	(4%)	7/50	(14%)		
		3/50	(6%)							3/50	(6%)						
Overall Incidence	Total	10/199	(5.03%)	Mean	5%	SD	4.16%	Total	15/198	(7.58%)	Mean	7.56%	SD	4.41%			
.....																	
*Clitoral/Preputial Gland: Carcinoma																	
		2/50	(4%)	1/49	(2%)	0/50	(0%)			2/48	(4%)	2/50	(4%)	0/50	(0%)		
		1/50	(2%)							0/50	(0%)						
Overall Incidence	Total	4/199	(2.01%)	Mean	2.01%	SD	1.63%	Total	4/198	(2.02%)	Mean	2.04%	SD	2.36%			

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		Male						Female						
*Clitoral/Preputial Gland: Carcinoma or Adenoma														
		4/50	(8%)	1/49	(2%)	5/50	(10%)		5/48	(10%)	4/50	(8%)	7/50	(14%)
		4/50	(8%)						3/50	(6%)				
Overall Incidence	Total	14/199	(7.04%)	Mean	7.01%	SD	3.44%	Total	19/198	(9.6%)	Mean	9.6%	SD	3.44%
.....														
*Clitoral/Preputial Gland: Fibrosarcoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/48	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/198	(0%)	Mean	0%	SD	0%
.....														
*Clitoral/Preputial Gland: Sarcoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/48	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/198	(0%)	Mean	0%	SD	0%
.....														
*Clitoral/Preputial Gland: Squamous Cell Papilloma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/48	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/198	(0%)	Mean	0%	SD	0%
.....														
#Ear: Neural Crest Tumor														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														

*: Denominator is number of animals with tissues examined microscopically
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Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
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Vehicle: CORN OIL

		Male				Female								
#Esophagus: Fibrosarcoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Esophagus: Lipoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Eye: Amelanotic Melanoma, Benign														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Eye: Melanoma Malignant														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Eye: Schwannoma Malignant														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

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		Male						Female						
#Harderian Gland: Carcinoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Harderian Gland: Carcinoma or Adenoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Heart: Schwannoma Benign														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						1/50	(2%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														
*Heart: Schwannoma Malignant														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Large: Colon/Rectum: Adenoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male				Female					
#Intestine Large: Colon/Rectum: Carcinoma											
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean 0% SD 0%
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma											
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean 0% SD 0%
#Intestine Large: Colon/Rectum: Hemangioma											
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean 0% SD 0%
#Intestine Small: Duodenum: Carcinoma											
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean 0% SD 0%
#Intestine Small: Duodenum: Leiomyoma											
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean 0% SD 0%

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

Male						Female						
#Intestine Small: Jejunum: Carcinoma												
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)		0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%
.....												
#Intestine Small: Jejunum: Granular Cell Tumor Malignant												
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)		0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%
.....												
#Intestine Small: Jejunum: Leiomyoma												
		1/50 0/50	(2%) (0%)	0/49	(0%)	0/50	(0%)		0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%
.....												
#Intestine Small: Jejunum: Leiomyosarcoma												
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)		0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%
.....												
#Intestine Small: Site Unspecified: Carcinoma												
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)		0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%
.....												

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female						
#Intestine Small: Site Unspecified: Carcinoma or Adenoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Site Unspecified: Granular Cell Tumor Malignant														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Site Unspecified: Leiomyoma														
		1/50	(2%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Site Unspecified: Leiomyosarcoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Islets, Pancreatic: Adenoma														
		4/50	(8%)	4/49	(8%)	2/50	(4%)		0/50	(0%)	1/50	(2%)	1/50	(2%)
		2/50	(4%)						1/50	(2%)				
Overall Incidence	Total	12/199	(6.03%)	Mean	6.04%	SD	2.36%	Total	3/200	(1.5%)	Mean	1.5%	SD	1%

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date:04/29/2009

Male														Female					
*Kidney: Renal Tubule: Adenoma																			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		1/50	(2%)						0/50	(0%)									
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%	SD	0%					
.....																			
*Kidney: Renal Tubule: Carcinoma																			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%					
.....																			
*Kidney: Renal Tubule: Carcinoma or Adenoma																			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		1/50	(2%)						0/50	(0%)									
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%	SD	0%					
.....																			
*Kidney: Renal Tubule: Hemangiosarcoma																			
		1/50	(2%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%	SD	0%					
.....																			
*Kidney: Renal Tubule: Lipoma																			
		0/50	(0%)	0/49	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%	SD	0%					

#: Denominator is number of animals necropsied

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Male										Female					
*Liver:															
Hepatocellular Adenoma															
		1/50	(2%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)							1/50	(2%)				
Overall Incidence	Total	3/199	(1.51%)	Mean	1.51%	SD	1.01%	Total		1/200	(0.5%)	Mean	0.5%	SD	1%
.....															
*Liver:															
Hepatocellular Carcinoma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total		0/200	(0%)	Mean	0%	SD	0%
.....															
*Liver:															
Hepatocellular Carcinoma or Hepatoblastoma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total		0/200	(0%)	Mean	0%	SD	0%
.....															
*Liver:															
Hepatocellular Carcinoma or Hepatocellular Adenoma															
		1/50	(2%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)							1/50	(2%)				
Overall Incidence	Total	3/199	(1.51%)	Mean	1.51%	SD	1.01%	Total		1/200	(0.5%)	Mean	0.5%	SD	1%
.....															
*Liver:															
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma															
		1/50	(2%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)							1/50	(2%)				
Overall Incidence	Total	3/199	(1.51%)	Mean	1.51%	SD	1.01%	Total		1/200	(0.5%)	Mean	0.5%	SD	1%
.....															

#: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

Male						Female								
*Lung: Alveolar/Bronchiolar Adenoma														
		3/50 0/50	(6%) (0%)	2/49	(4%)	3/50	(6%)		1/50 2/50	(2%) (4%)	0/50	(0%)	4/50	(8%)
Overall Incidence	Total	8/199	(4.02%)	Mean	4.02%	SD	2.83%	Total	7/200	(3.5%)	Mean	3.5%	SD	3.42%
.....														
*Lung: Alveolar/Bronchiolar Carcinoma														
		1/50 1/50	(2%) (2%)	1/49	(2%)	0/50	(0%)		0/50 0/50	(0%) (0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	3/199	(1.51%)	Mean	1.51%	SD	1.01%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma														
		4/50 1/50	(8%) (2%)	2/49	(4%)	3/50	(6%)		1/50 2/50	(2%) (4%)	0/50	(0%)	4/50	(8%)
Overall Incidence	Total	10/199	(5.03%)	Mean	5.02%	SD	2.57%	Total	7/200	(3.5%)	Mean	3.5%	SD	3.42%
.....														
*Lung: Fibrosarcoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)		0/50 0/50	(0%) (0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														
*Lung: Hemangiosarcoma														
		1/50 0/50	(2%) (0%)	0/49	(0%)	0/50	(0%)		0/50 0/50	(0%) (0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

		Male				Female								
*Lung: Sarcoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Lung: Squamous Cell Carcinoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														
#Lymph Node: Hemangiosarcoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Mammary Gland: Adenolipoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														
#Mammary Gland: Adenoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50 2/50	(0%) (4%)	2/50	(4%)	0/50	(0%)	
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	4/200	(2%)	Mean	2%	SD	2.31%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male				Female								
#Mammary Gland: Carcinoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	4/50 0/50	(8%) (0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	5/200	(2.5%)	Mean	2.5%	SD	3.79%
.....														
#Mammary Gland: Carcinoma or Adenoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	4/50 2/50	(8%) (4%)	3/50	(6%)	0/50	(0%)	
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	9/200	(4.5%)	Mean	4.5%	SD	3.42%
.....														
#Mammary Gland: Fibroadenoma														
		4/50 1/50	(8%) (2%)	0/49	(0%)	0/50	(0%)	26/50 21/50	(52%) (42%)	24/50	(48%)	17/50	(34%)	
Overall Incidence	Total	5/199	(2.51%)	Mean	2.5%	SD	3.79%	Total	88/200	(44%)	Mean	44%	SD	7.83%
.....														
#Mammary Gland: Fibroma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50 0/50	(0%) (0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma														
		4/50 1/50	(8%) (2%)	0/49	(0%)	0/50	(0%)	26/50 22/50	(52%) (44%)	25/50	(50%)	17/50	(34%)	
Overall Incidence	Total	5/199	(2.51%)	Mean	2.5%	SD	3.79%	Total	90/200	(45%)	Mean	45%	SD	8.08%

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date:04/29/2009

#: Denominator is number of animals necropsied

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date:04/29/2009

Male										Female					
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma															
		1/50	(2%)	1/49	(2%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	2/50	(4%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	3/199	(1.51%)	Mean	1.51%	SD	1.01%	Total	2/200	(1%)	Mean	1%	SD	2%	
.....															
#Oral Mucosa: Squamous Cell Carcinoma															
		1/50	(2%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%	
.....															
#Oral Mucosa: Squamous Cell Papilloma															
		0/50	(0%)	1/49	(2%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	2/199	(1.01%)	Mean	1.01%	SD	1.17%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
*Ovary: Cystadenoma															
									0/50	(0%)	1/50	(2%)	0/50	(0%)	
									0/50	(0%)					
Overall Incidence								Total	1/200	(0.5%)	Mean	0.5%	SD	1%	
.....															
*Ovary: Granulosa Cell Tumor Benign															
									0/50	(0%)	0/50	(0%)	1/50	(2%)	
									0/50	(0%)					
Overall Incidence								Total	1/200	(0.5%)	Mean	0.5%	SD	1%	
.....															

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

Male			Female			
*Ovary: Granulosa Cell Tumor Malignant						
		0/50 0/50	(0%) (0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	0/200	(0%)	Mean 0%		SD 0%
.....						
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS						
		0/50 0/50	(0%) (0%)	0/50	(0%)	1/50 (2%)
Overall Incidence	Total	1/200	(0.5%)	Mean 0.5%		SD 1%
.....						
*Ovary: Granulosa-Theca Tumor Benign						
		0/50 0/50	(0%) (0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	0/200	(0%)	Mean 0%		SD 0%
.....						
*Ovary: Granulosa-Theca Tumor Malignant						
		0/50 0/50	(0%) (0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	0/200	(0%)	Mean 0%		SD 0%
.....						
*Ovary: Tubulostromal Adenoma						
		0/50 0/50	(0%) (0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	0/200	(0%)	Mean 0%		SD 0%
.....						

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date:04/29/2009

Male												Female			
*Parathyroid Gland: Adenoma															
		0/47	(0%)	1/49	(2%)	1/45	(2%)		0/47	(0%)	0/44	(0%)	0/47	(0%)	
		1/49	(2%)						2/46	(4%)					
Overall Incidence	Total	3/190	(1.58%)	Mean	1.58%	SD	1.05%	Total	2/184	(1.09%)	Mean	1.09%	SD	2.17%	
.....															
#Peripheral Nerve: Schwannoma Malignant															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Peripheral Nerve: Schwannoma: Benign, Malignant, NOS															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
*Pituitary Gland: Pars Distalis or Unspecified Site: Adenoma															
		19/50	(38%)	21/49	(43%)	6/50	(12%)		25/50	(50%)	29/50	(58%)	25/50	(50%)	
		11/50	(22%)						27/50	(54%)					
Overall Incidence	Total	57/199	(28.64%)	Mean	28.71%	SD	14.27%	Total	106/200	(53%)	Mean	53%	SD	3.83%	
.....															
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%	

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

Male												Female					
#Skeletal Muscle: Hemangioma																	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		0/50	(0%)							0/50	(0%)						
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
#Skeletal Muscle: Hemangiosarcoma																	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		0/50	(0%)							0/50	(0%)						
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
#Skeletal Muscle: Lipoma																	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		0/50	(0%)							0/50	(0%)						
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
#Skeletal Muscle: Rhabdomyosarcoma																	
		0/50	(0%)	0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)				
		0/50	(0%)							0/50	(0%)						
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
#Skeletal Muscle: Rhabdomyosarcoma or Rhabdomyoma																	
		0/50	(0%)	0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)				
		0/50	(0%)							0/50	(0%)						
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Male										Female					
#Skeletal Muscle:															
Sarcoma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total		0/200	(0%)	Mean	0%	SD	0%
.....															
#Skin:															
Basal Cell Adenoma															
		0/50	(0%)	2/49	(4%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	2/199	(1.01%)	Mean	1.02%	SD	2.04%	Total		1/200	(0.5%)	Mean	0.5%	SD	1%
.....															
#Skin:															
Basal Cell Adenoma or Basosquamous Tumor Benign															
		0/50	(0%)	2/49	(4%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	2/199	(1.01%)	Mean	1.02%	SD	2.04%	Total		1/200	(0.5%)	Mean	0.5%	SD	1%
.....															
#Skin:															
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma															
		0/50	(0%)	2/49	(4%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	2/199	(1.01%)	Mean	1.02%	SD	2.04%	Total		1/200	(0.5%)	Mean	0.5%	SD	1%
.....															
#Skin:															
Basal Cell Carcinoma															
		1/50	(2%)	0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	2/199	(1.01%)	Mean	1%	SD	1.15%	Total		0/200	(0%)	Mean	0%	SD	0%
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date:04/29/2009

Male										Female					
#Skin:															
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)															
		1/50	(2%)	0/49	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	2/199	(1.01%)	Mean	1%	SD	1.15%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma															
		1/50	(2%)	2/49	(4%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	4/199	(2.01%)	Mean	2.02%	SD	1.67%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%	
.....															
#Skin:															
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma															
		8/50	(16%)	2/49	(4%)	3/50	(6%)		0/50	(0%)	0/50	(0%)	1/50	(2%)	
		3/50	(6%)						1/50	(2%)					
Overall Incidence	Total	16/199	(8.04%)	Mean	8.02%	SD	5.4%	Total	2/200	(1%)	Mean	1%	SD	1.15%	
.....															
#Skin:															
Fibroma															
		5/50	(10%)	7/49	(14%)	3/50	(6%)		0/50	(0%)	1/50	(2%)	2/50	(4%)	
		3/50	(6%)						3/50	(6%)					
Overall Incidence	Total	18/199	(9.05%)	Mean	9.07%	SD	3.95%	Total	6/200	(3%)	Mean	3%	SD	2.58%	
.....															
#Skin:															
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma															
		7/50	(14%)	7/49	(14%)	4/50	(8%)		0/50	(0%)	1/50	(2%)	3/50	(6%)	
		3/50	(6%)						3/50	(6%)					
Overall Incidence	Total	21/199	(10.55%)	Mean	10.57%	SD	4.21%	Total	7/200	(3.5%)	Mean	3.5%	SD	3%	
.....															

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date:04/29/2009

Male										Female					
#Skin:															
Fibrosarcoma															
		1/50	(2%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%	
.....															
#Skin:															
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma															
		2/50	(4%)	0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	3/199	(1.51%)	Mean	1.5%	SD	1.91%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%	
.....															
#Skin:															
Fibrous Histiocytoma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Hemangioma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Hemangiosarcoma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

Male								Female							
#Skin:															
Neurofibroma or Schwannoma benign															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
#Skin:															
Neurofibrosarcoma or Schwannoma (malignant or NOS)															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		3/50	(6%)						0/50	(0%)					
Overall Incidence	Total	3/199	(1.51%)	Mean	1.5%	SD	3%	Total	0/200	(0%)	Mean	0%	SD	0%	
#Skin:															
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		3/50	(6%)						0/50	(0%)					
Overall Incidence	Total	3/199	(1.51%)	Mean	1.5%	SD	3%	Total	0/200	(0%)	Mean	0%	SD	0%	
#Skin:															
Sarcoma															
		1/50	(2%)	0/49	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	2/199	(1.01%)	Mean	1%	SD	1.15%	Total	0/200	(0%)	Mean	0%	SD	0%	
#Skin:															
Schwannoma Benign															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	

#: Denominator is number of animals with tissues examined microscopically
*: Denominator is number of animals necropsied

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date:04/29/2009

Male										Female					
#Skin:															
Schwannoma Malignant															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		3/50	(6%)							0/50	(0%)				
Overall Incidence	Total	3/199	(1.51%)	Mean	1.5%	SD	3%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Squamous Cell Carcinoma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma															
		1/50	(2%)	0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	2/199	(1.01%)	Mean	1%	SD	1.15%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Squamous Cell Papilloma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							1/50	(2%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%	
.....															
#Skin:															
Squamous Cell Papilloma or Papilloma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							1/50	(2%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%	
.....															

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date:04/29/2009

Male										Female					
#Skin:															
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma															
		7/50	(14%)	0/49	(0%)	2/50	(4%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		3/50	(6%)							1/50	(2%)				
Overall Incidence	Total	12/199	(6.03%)	Mean	6%	SD	5.89%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%	
.....															
#Skin:															
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma															
		7/50	(14%)	0/49	(0%)	2/50	(4%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		3/50	(6%)							1/50	(2%)				
Overall Incidence	Total	12/199	(6.03%)	Mean	6%	SD	5.89%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%	
.....															
#Skin:															
Trichoepithelioma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Sebaceous Gland:															
Adenoma															
		1/50	(2%)	0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	2/199	(1.01%)	Mean	1%	SD	1.15%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Sebaceous Gland:															
Carcinoma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															

#: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date:04/29/2009

Male												Female					
#Skin: Sebaceous Gland: Carcinoma or Adenoma																	
		1/50	(2%)	0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)							0/50	(0%)						
Overall Incidence	Total	2/199	(1.01%)	Mean	1%	SD	1.15%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
#Spinal Cord: Astrocytoma Benign																	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)		
		0/50	(0%)							0/50	(0%)						
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%			
.....																	
#Spinal Cord: Astrocytoma Malignant																	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)							0/50	(0%)						
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
#Spinal Cord: Glioma Malignant																	
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)							0/50	(0%)						
Overall Incidence	Total	1/199	(0.5%)	Mean	0.51%	SD	1.02%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
*Spleen: Fibrosarcoma																	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)							0/50	(0%)						
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%			

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

		Male				Female								
*Spleen:														
Fibrous Histiocytoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Spleen:														
Hemangioma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Spleen:														
Hemangiosarcoma														
		1/50 0/50	(2%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	2/200	(1%)	Mean	1%	SD	2%
.....														
*Spleen:														
Leiomyosarcoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Spleen:														
Sarcoma														
		0/50 0/50	(0%) (0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female						
#Stomach, Forestomach: Leiomyosarcoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Forestomach: Squamous Cell Carcinoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Forestomach: Squamous Cell Carcinoma or Papilloma Squamous														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						1/50	(2%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														
#Stomach, Forestomach: Squamous Cell Papilloma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						1/50	(2%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														
#Stomach, Glandular: Lipoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date:04/29/2009

		Male						Female						
*Thymus:														
Thymoma NOS														
		0/47	(0%)	0/48	(0%)	0/47	(0%)	0/47	(0%)	0/50	(0%)	0/49	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/192	(0%)	Mean	0%	SD	0%	Total	0/196	(0%)	Mean	0%	SD	0%
.....														
*Thymus:														
Thymoma: Benign, Malignant, NOS														
		0/47	(0%)	0/48	(0%)	0/47	(0%)	0/47	(0%)	0/50	(0%)	0/49	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/192	(0%)	Mean	0%	SD	0%	Total	0/196	(0%)	Mean	0%	SD	0%
.....														
*Thyroid Gland: C-Cell:														
Adenoma														
		9/50	(18%)	8/49	(16%)	12/50	(24%)	7/50	(14%)	5/50	(10%)	5/50	(10%)	
		8/50	(16%)					8/50	(16%)					
Overall Incidence	Total	37/199	(18.59%)	Mean	18.58%	SD	3.72%	Total	25/200	(12.5%)	Mean	12.5%	SD	3%
.....														
*Thyroid Gland: C-Cell:														
Carcinoma														
		6/50	(12%)	0/49	(0%)	0/50	(0%)	3/50	(6%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	6/199	(3.02%)	Mean	3%	SD	6%	Total	3/200	(1.5%)	Mean	1.5%	SD	3%
.....														
*Thyroid Gland: C-Cell:														
Carcinoma or Adenoma														
		15/50	(30%)	8/49	(16%)	12/50	(24%)	9/50	(18%)	5/50	(10%)	5/50	(10%)	
		8/50	(16%)					8/50	(16%)					
Overall Incidence	Total	43/199	(21.61%)	Mean	21.58%	SD	6.72%	Total	27/200	(13.5%)	Mean	13.5%	SD	4.12%

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date:04/29/2009

Male														Female					
*Thyroid Gland: Follicular Cell: Adenoma																			
		1/50	(2%)	1/49	(2%)	1/50	(2%)		0/50	(0%)	1/50	(2%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	3/199	(1.51%)	Mean	1.51%	SD	1.01%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%					
.....																			
*Thyroid Gland: Follicular Cell: Carcinoma																			
		1/50	(2%)	0/49	(0%)	2/50	(4%)		1/50	(2%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	3/199	(1.51%)	Mean	1.5%	SD	1.91%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%					
.....																			
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma																			
		2/50	(4%)	1/49	(2%)	3/50	(6%)		1/50	(2%)	1/50	(2%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	6/199	(3.02%)	Mean	3.01%	SD	2.58%	Total	2/200	(1%)	Mean	1%	SD	1.15%					
.....																			
#Tissue NOS: Lipoma																			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%					
.....																			
#Tissue NOS: Paraganglioma																			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%					

#: Denominator is number of animals necropsied

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female						
#Tissue NOS:														
Schwannoma Malignant														
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Tongue:														
Squamous Cell Carcinoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Tongue:														
Squamous Cell Carcinoma or Papilloma Squamous														
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														
#Tongue:														
Squamous Cell Papilloma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														
#Tooth:														
Adamantinoma Malignant														
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

		Male						Female						
#Tooth:														
Odontoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)						1/50	(2%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														
*Urinary Bladder:														
Carcinoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Urinary Bladder:														
Carcinoma or Papilloma														
		0/50	(0%)	0/49	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	1/199	(0.5%)	Mean	0.5%	SD	1%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Urinary Bladder:														
Hemangiosarcoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Urinary Bladder:														
Leiomyosarcoma														
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Male			Female			
#Uterus: Hemangiosarcoma						
		0/50 0/50	(0%) (0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	0/200	(0%)	Mean 0%	SD 0%	
.....						
#Uterus: Leiomyoma						
		0/50 0/50	(0%) (0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	0/200	(0%)	Mean 0%	SD 0%	
.....						
#Uterus: Leiomyosarcoma						
		0/50 0/50	(0%) (0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	0/200	(0%)	Mean 0%	SD 0%	
.....						
#Uterus: Polyp Stromal						
		8/50 5/50	(16%) (10%)	7/50	(14%)	8/50 (16%)
Overall Incidence	Total	28/200	(14%)	Mean 14%	SD 2.83%	
.....						
#Uterus: Sarcoma Stromal						
		0/50 0/50	(0%) (0%)	1/50	(2%)	0/50 (0%)
Overall Incidence	Total	1/200	(0.5%)	Mean 0.5%	SD 1%	
.....						

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

Male						Female					
#Uterus:											
Sarcoma Stromal or Polyp Stromal											
						8/50	(16%)	7/50	(14%)	8/50	(16%)
						5/50	(10%)				
Overall Incidence						Total	28/200	(14%)	Mean	14%	SD 2.83%
.....											
#Uterus:											
Schwannoma Malignant											
						0/50	(0%)	0/50	(0%)	0/50	(0%)
						0/50	(0%)				
Overall Incidence						Total	0/200	(0%)	Mean	0%	SD 0%
.....											
#Vagina:											
Polyp											
						1/50	(2%)	0/50	(0%)	0/50	(0%)
						0/50	(0%)				
Overall Incidence						Total	1/200	(0.5%)	Mean	0.5%	SD 1%
.....											
#Vagina:											
Sarcoma											
						0/50	(0%)	0/50	(0%)	0/50	(0%)
						0/50	(0%)				
Overall Incidence						Total	0/200	(0%)	Mean	0%	SD 0%
.....											
#Zymbal's Gland:											
Adenoma											
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence		Total	0/199	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)
								Mean	0%	SD	0%
.....											

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date:04/29/2009

Male														Female					
#Zymbal's Gland: Carcinoma		2/50	(4%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						1/50	(2%)									
Overall Incidence	Total	2/199	(1.01%)	Mean	1%	SD	2%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%					
.....																			
#Zymbal's Gland: Carcinoma or Adenoma		2/50	(4%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						1/50	(2%)									
Overall Incidence	Total	2/199	(1.01%)	Mean	1%	SD	2%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%					

#: Denominator is number of animals necropsied